

CLAIMS

1. A disposable tube set apparatus for delivering a precise volume of a fluid to containers which comprises:

- a reservoir for a fluid,
- an inlet conduit to said reservoir,
- at least one first outlet conduits from said reservoir,
- a sight tube connected to each of said at least one outlet conduit,

each of said sight outlet tubes having an interior wall tapered away from a central vertical axis of each of said sight outlet tubes,

- a return conduit connecting each of said sight outlet tubes to said reservoir,
- and a second outlet conduit connected to each of said sight tubes.

2. The disposable tube set apparatus of claim 1 having a single first outlet conduit from said reservoir.

3. The disposal tube set apparatus of Claim 1 having a plurality of first outlet conduits from said reservoir.

4. The apparatus of Claim 3 having three first outlet conduits having three first outlet conduits.

5. The apparatus of Claim 3 having four first outlet conduits.

6. A system for delivering a given volume of a fluid to a container which comprises:

the disposable tube set apparatus of Claim 1,

a first sensor for sensing a level of fluid in a bottom portion of each of said sight tubes,

a second sensor for sensing a desired level of fluid in a top portion of each of said sight tubes,

a first valve means connected to said second sensor for ceasing the flow of fluid from said reservoir into said sight tube,

and second valve means connected to said first sensor for ceasing fluid dispense from sight tube into said container.

7. The system of claim 6 having a single first outlet conduit from said reservoir.

8. The system of Claim 6 having a plurality of first outlet conduits from said reservoir.

9. The system of Claim 8 having three first outlet conduits having three first outlet conduits.

10. The system of Claim 8 having four first outlet conduits.

11. The apparatus of any one of claims 1, 2, 3, 4 or 5 wherein the angle between said interior wall and said central vertical axis is between about 2 and 4 degrees.

12. The system of any one of claims 6, 7, 8 or 9 wherein the angle between said interior wall and said central vertical axis is between about 2 and 4 degrees.